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(54) BIOIMPLANT MATERIAL AND METHOD OF MANUFACTURING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a bioimplant material having bonding strength to a vital bone and a method of manufacturing the same in a short period.

SOLUTION: This bioimplant material is constituted by immersing a base material consisting of titanium or its alloy into an aqueous alkaline solution, then into water and forming a film which contains anatase, does not substantially contain amorphous titanate and has the concentration of titanium metal successively increasing toward the inside on its surface and further, forming a second film consisting of apatite thereon. The thickness of the first film is 0.1 to 5.0 μm and the thickness of the second film consisting of the apatite is 0.1 to 50 μm . Accordingly, this material is adequately used for the artificial bone, the artificial dental root, etc.

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